CUYAMACA COLLEGE
ACADEMIC PROGRAM CHANGES
May 2021
for the
2021-2022 CATALOG

COURSE ADDITIONS

ARABIC 130 – ARABIC LITERATURE AND CULTURE　　　　　　　　　　　　　　　　**3 UNITS**
Prerequisite: None
Recommended Preparation: "C" grade or higher or "Pass" in Arabic 121 or equivalent or "C" grade or higher or "Pass" in ENGL 120 or equivalent
3 hours lecture
This course surveys Arabic Literature masterpieces and/or Arabic literature in translation. The course focuses on the historical, social, religious, socio-political, philosophical, and cultural aspects of Arabic literature. It will be a great choice for Arabic learners, heritage speakers, native and non-native speakers of Arabic. A diverse selection of texts in Arabic and/or English is read and discussed to expand students' cultural horizons. Reading selections include works from the Pre-Islamic period, Islamic, Umayyads, Abbasids, and Modern period. Works of classical and modern writers will be included, in addition to prominent Arab-American and women writers.
CSU

ARABIC 180 – BASIC COMPUTER SKILLS FOR ARABIC LEARNERS　　　　　　　　　　　　　**1 UNIT**
Prerequisite: None
Recommended Preparation: "C" grade or higher or "Pass" in Arabic 120 or equivalent
1 hour lecture
Students will be provided with the basic information and skills needed to operate a computer efficiently to support Arabic classes with an emphasis on basic keyboarding techniques and typing in Arabic, editing and formatting text in Arabic, and creating, formatting, and editing PowerPoint presentations in Arabic. Includes an overview of file and folder management to store information, using computer input devices, searching the internet, and sending email with attachments. *Also listed as BOT 180. Not open to students with credit in BOT 180.*
CSU

BUSINESS OFFICE TECHNOLOGY 180 – BASIC COMPUTER SKILLS FOR ARABIC LEARNERS　　　　**1 UNIT**
Prerequisite: None
Recommended Preparation: "C" grade or higher or "Pass" in Arabic 120 or equivalent
1 hour lecture
Students will be provided with the basic information and skills needed to operate a computer efficiently to support Arabic classes with an emphasis on basic keyboarding techniques and typing in Arabic, editing and formatting text in Arabic, and creating, formatting, and editing PowerPoint presentations in Arabic. Includes an overview of file and folder management to store information, using computer input devices, searching the internet, and sending email with attachments. *Also listed as ARBC 180. Not open to students with credit in ARBC 180.*
CSU

ENGLISH AS A SECOND LANGUAGE 122 – COLLEGE RHETORIC　　　　　　　　　　　　　　**6 UNITS**
Prerequisite: "C" grade or higher or "Pass" in ESL 2, 2A or 2B, or advisory placement in ESL 122 or equivalent
6 hours lecture
ESL 122 is the transfer-level English course designed for advanced, non-native speakers to develop college-level critical reading, writing, and thinking skills and to enhance fluid listening and speaking through academic inquiry across the disciplines. Students analyze and evaluate a variety of texts in response to particular audiences and purposes. They study composition and rhetoric to craft accurate and fluent expository, analytical, and argumentative academic papers and oral presentations, including an extended argument, which synthesizes, integrates, and acknowledges multiple sources. Students expand their cultural competence through discussion and analysis of diverse media addressing contemporary issues and engage in meaningful dialogue with the instructor, peers, and target audience.
CSU

ETHNIC STUDIES 166 – INTRODUCTION TO NATIVE AMERICAN POLITICS AND POLICY　　　　　**3 UNITS**
Prerequisite: None
3 hours lecture
This course introduces students to Native American politics and policy from the treaty making process that formed the foundation of contemporary tribal sovereignty to legal cases and precedents that impact Native American lands and people. The course will also explore how Native people have both petitioned for access into the American polity and actively resisted assimilation. Emphasis will be given to twelve recognized Kumeyaay tribal governments in the United States and four recognized Kumeyaay/Kumiai tribal governments in Baja California, Mexico. *Also listed as POSC 166. Not open to students with credit in POSC 166.*
CSU

HUMANITIES 117 – KUMEYAAY ARTS AND CULTURE II   3 UNITS
Prerequisite: None
3 hours lecture
This course is a seasonal survey of arts and culture of the Kumeyaay Nation in what is now commonly known as San Diego and Imperial Counties and Baja California. Students will study Kumeyaay uses of summer and fall plant resources, and participate in the harvest and construction of Tule boats, e`waa house, hunting and fishing tools, various types of baskets, and clothing and jewelry. Guest lectures by Kumeyaay experts will be integrated into the course. Field trips to various cultural sites and events are a required component of this class.
CSU

POLITICAL SCIENCE 166 – INTRODUCTION TO NATIVE AMERICAN POLITICS AND POLICY   3 UNITS
Prerequisite: None
3 hours lecture
This course introduces students to Native American politics and policy from the treaty making process that formed the foundation of contemporary tribal sovereignty to legal cases and precedents that impact Native American lands and people. The course will also explore how Native people have both petitioned for access into the American polity and actively resisted assimilation. Emphasis will be given to twelve recognized Kumeyaay tribal governments in the United States and four recognized Kumeyaay/Kumiai tribal governments in Baja California, Mexico. *Also listed as ETHN 166. Not open to students with credit in ETHN 166.*
CSU

POLITICAL SCIENCE 180 – INTRODUCTION TO PUBLIC POLICY   3 UNITS
Prerequisite: None
3 hours lecture
This course focuses on public policy, including the policy process: problem identification, policy analysis, strategy and policy development, policy enactment, and policy implementation. The course will examine the application of these concepts to policy areas, such as children, families, and communities, criminal justice, democracy and voting rights, economic and budgetary, education and literacy, energy and environment, health and human services, immigrant rights, infrastructure and transportation, mobility and opportunity, science and technology, and water.
CSU

COURSE MODIFICATIONS

The following reflect changes in subject designator, course number and/or title, prerequisite/corequisite/recommended preparation, units, hours, and/or course description. Other areas (e.g., course objectives, course content, student learning outcomes, etc.) may also have been modified to meet Title 5 standards (reflected as "*Review and update of course outline*"). These modifications have been carefully reviewed by the Curriculum, General Education and Academic Policies and Procedures Committee.

PRESENT	PROPOSED CHANGES TO AREAS AS INDICATED
BUSINESS 120 – FINANCIAL ACCOUNTING	*Review and update of course outline*
BUSINESS 121 – MANAGERIAL ACCOUNTING	*Review and update of course outline*
BUSINESS 124 – AUDITING	*Review and update of course outline*
BUSINESS 176 – COMPUTERIZED ACCOUNTING APPLICATIONS	*Review and update of course outline*
BUSINESS OFFICE TECHNOLOGY 103A – BUILDING KEYBOARDING SKILL I Designed for students who have completed a keyboarding course but wish to work further on developing speed and accuracy. Entering students should know the alphabetic keyboard by touch and key at a minimum rate of 20 net words per minute on a 5-minute timed writing. Those keying at a lower rate should enroll in BOT 095.	Designed for students who have completed a keyboarding course but wish to work further on developing speed and accuracy. Entering students should know the alphabetic keyboard by touch and key at a minimum rate of 20 net words per minute on a 5-minute timed writing.
BUSINESS OFFICE TECHNOLOGY 133 – ADOBE ACROBAT FOR THE WORKPLACE Prerequisite: None Recommended Preparation: "C" grade or higher or "Pass" in BOT 096, 119 or equivalent	Prerequisite: None Recommended Preparation: "C" grade or higher or "Pass" in BOT 119 or equivalent
CHEMISTRY 012 – STRATEGIES FOR SUCCESS IN CHEM 102 INTRODUCTION TO GENERAL, ORGANIC AND BIOLOGICAL CHEMISTRY Prerequisite: Pass" in MATH 060 or MATH 096 or equivalent Corequisite: Concurrent enrollment in CHEM 102	Prerequisite: None Corequisite: Concurrent enrollment in CHEM 102
CHEMISTRY 102 – INTRODUCTION TO GENERAL, ORGANIC AND BIOLOGICAL CHEMISTRY Prerequisite: "Pass" in MATH 060 or MATH 096 or equivalent	Prerequisite: Appropriate mathematics placement
CHEMISTRY 115 – FUNDAMENTALS OF CHEMISTRY Prerequisite: Grade of "Pass" in MATH 090 or equivalent Elementary principles of inorganic and general chemistry with a brief introduction to organic and biochemistry. Previous chemistry background is not required. Recommended for students who need only a one-semester general chemistry course and for students entering paramedical and allied health fields. *Students will not receive credit toward graduation for more than one of the following courses: CHEM 113, 115, 120.*	Prerequisite: Appropriate mathematics placement Elementary principles of inorganic and general chemistry with a brief introduction to organic and biochemistry. Previous chemistry background is not required. Recommended for students who need only a one-semester general chemistry course and for students entering paramedical and allied health fields. *Students will not receive credit toward graduation for more than one of the following courses: CHEM 115, 120.*
COMMUNICATION 124 – INTERCULTURAL COMMUNICATION	*Review and update of course outline*
COMPUTER AND INFORMATION SCIENCE 201 – CISCO NETWORKING ACADEMY I	**CISCO ACADEMY – INTRODUCTION TO NETWORKING**
COMPUTER AND INFORMATION SCIENCE 202 – CISCO NETWORKING ACADEMY II	**CISCO ACADEMY – ROUTING, SWITCHING, AND WIRELESS ESSENTIALS**
COMPUTER AND INFORMATION SCIENCE 203 – CISCO NETWORKING ACADEMY III	**CISCO ACADEMY – ENTERPRISE NETWORKING, SECURITY, AND AUTOMATION**
COMPUTER AND INFORMATION SCIENCE 209 – CISCO CCNA Security Designed for students seeking career-oriented, entry-level security specialist skills. Provides the technical knowledge and skill experience needed to prepare for entry-level security specialist careers. The CCNA Security curriculum blends classroom hands-on experience using Cisco routers, switches, ASAs and an online e-learning solution to develop an in-depth understanding of network security principles and security tools such as: protocol sniffers/analyzers, TCP/IP and common desktop utilities; Cisco IOS-based network security, administrative access security and Intrusion Prevention System (IPS); Cisco ASA Firewalls; AAA; and VPNs. Preparation for the Implementing Cisco Network Security (IINS) certification exam (210-260 IINS), leading to the CCNA Security certification.	**CISCO CYBEROPS** Designed for students seeking career-oriented, entry-level security specialist skills. Provides the technical knowledge and skill experience needed to prepare for entry-level security specialist careers. The CCNA Security curriculum blends classroom hands-on experience using Cisco routers, switches, ASAs and an online e-learning solution to develop an in-depth understanding of network security principles and security tools such as: protocol sniffers/analyzers, TCP/IP and common desktop utilities; Cisco IOS-based network security, administrative access security and Intrusion Prevention System (IPS); Cisco ASA Firewalls; AAA; and VPNs. Preparation for the Implementing Cisco Network Security (IINS) certification exam (210-260 IINS), leading to the CCNA CyberOps certification.

PRESENT	PROPOSED CHANGES TO AREAS AS INDICATED
ECONOMICS 120 – PRINCIPLES OF MACROECONOMICS Prerequisite: "C" grade or higher or "Pass" in MATH 110 or equivalent (MATH 110 is recommended for Business majors)	Prerequisite: Appropriate mathematics placement
ECONOMICS 121 – PRINCIPLES OF MICROECONOMICS Prerequisite: "C" grade or higher or "Pass" in MATH 110 or equivalent (MATH 110 is recommended for Business majors)	Prerequisite: Appropriate mathematics placement
ENGLISH 124 – ADVANCED COMPOSITION: CRITICAL REASONING AND WRITING Prerequisite: "C" grade or higher or "Pass" in ENGL 120 or equivalent Develop critical thinking, reading and writing skills beyond the level achieved in ENGL 120. Focuses on the development of logical reasoning and analytical and argumentative writing skills.	Prerequisite: "C" grade or higher or "Pass" in ENGL 120 or ESL 122 or equivalent This course offers advanced instruction in critical reading, writing, and thinking, with particular emphasis on argumentation and analysis of complex and diverse texts.
ENGLISH 270 – WORLD LITERATURE I Survey and comparison of major works in translation and in English from various continents and cultures prior to 1650 A.D. Focuses on the historical, social, philosophical, and cultural aspects of literature and the roles of women and men. Minority perspectives will be included. Reading selections include works from the ancient Mediterranean world, South and East Asia, Europe, Middle East, Africa, and the early Americas.	This class is a survey and comparison of major works from various continents and cultures prior to 1650 A.D. Students examine the literature as a reflection of multiple and diverse experiences across the world. The course may include discussions on the historical, social, philosophical, aesthetic, and cultural aspects of world literature. Reading selections may consist of poetry, short stories, plays, novels, and nonfiction prose, including essays, letters, political tracts, autobiographies, and speeches. Reading selections include works from the ancient Mediterranean world, South and East Asia, Europe, Middle East, Africa, and the early Americas.
ENGLISH AS A SECOND LANGUAGE 120 – ACCELERATED COMPOSITION FOR ENGLISH AS A SECOND LANGUAGE Prerequisite: "C" grade or higher or "Pass" in ESL 103 or equivalent or assessment into ESL 106 5 hours lecture, 1 hour laboratory, 5 units This course combines the curricula of ESL 106 and 119 into an accelerated program designed to bring students up to the grammatical and composition level needed for ENGL 120. The focus is on writing the essay in proper format with proper depth of analysis and rigor of research. Critical written responses to academic readings are also emphasized.	**ENGLISH AS A SECOND LANGUAGE 2 – ACCELERATED COMPOSITION FOR ENGLISH AS A SECOND LANGUAGE** Prerequisite: None 6 hours lecture, 6 units This course combines the curricula of ESL 2A and 2B into an accelerated program designed to bring students up to the grammatical and composition level needed for ENGL 120 or ESL 122. The focus is on writing the essay in proper format with proper depth of analysis and rigor of research. Critical written responses to academic readings are also emphasized.
HISTORY 148 – EMERGENCE OF THE MODERN MIDDLE EAST A historical survey exploring the events leading to the creation and emergence of the modern Middle East. Ranging from the 7th century to the present, the course includes the origin and spread of Islam, Islamic dynasties and civilizations, Crusades, Ottoman Empire, Persia/Iran, interactions with and colonization by Western powers, rise of 20th century independent nation-states, creation of Israel and the Arab-Israeli conflict, 20th century wars and conflicts, famous political/religious leaders, intellectual/scientific accomplishments, and artistic/literary works.	**THE MODERN MIDDLE EAST** A historical survey exploring the history of the modern Middle East. The course includes background material on the origin and spread of Islam, Islamic dynasties and civilizations. Major emphasis on the Ottoman Empire, the colonial era, rise of 20th century independent nation-states, creation of Israel and the Arab-Israeli conflict, 20th and 21st-century wars and conflicts, famous political/religious leaders, intellectual/scientific accomplishments, and artistic/literary works.
HUMANITIES 116 – KUMEYAAY ARTS AND CULTURE This course is a survey of arts and culture of the Kumeyaay Nation in what is now commonly known as San Diego and Imperial Counties and Baja California. Students will study Kumeyaay art, music, dance, games, related literature, philosophy, religious beliefs and traditions. Kumeyaay humanities will be studied in the broader context of world cultures. Guest lectures by Kumeyaay elders and experts will be integrated into the course. Field trips to various cultural sites and events are a required component of this class.	This course is a seasonal survey of arts and culture of the Kumeyaay Nation in what is now commonly known as San Diego and Imperial Counties and Baja California. Students will study Kumeyaay songs and stories, dance, games, pottery, philosophy, spiritual beliefs and traditions, and the various uses of winter and spring plant resources. Guest lectures by Kumeyaay experts will be integrated into the course. Field trips to various cultural sites and events are a required component of this class.
MATHEMATICS 120 – QUANTITATIVE REASONING Prerequisite: "C" grade or higher or "Pass" in MATH 096 or 110 or equivalent	Prerequisite: Appropriate mathematics placement
MATHEMATICS 160 – ELEMENTARY STATISTICS Prerequisite: "C" grade or higher or "Pass" in MATH 096 or 110 or equivalent	Prerequisite: "C" grade or higher in Math 110 or appropriate mathematics placement
ORNAMENTAL HORTICULTURE 240 – GREENHOUSE PLANT PRODUCTION	*Review and update of course outline*

PRESENT	PROPOSED CHANGES TO AREAS AS INDICATED
PARALEGAL STUDIES 135 – BANKRUPTCY LAW	*Review and update of course outline*
PARALEGAL 175 - ELECTRONIC DISCOVERY: PRACTICE AND PROCEDURE	*Review and update of course outline*
PARALEGAL STUDIES 199 – SPECIAL STUDIES OR PROJECTS IN PARALEGAL STUDIES	*Review and update of course outline*
PSYCHOLOGY 215 – STATISTICS FOR THE BEHAVIORAL SCIENCES Prerequisite: "C" grade or higher or "Pass" in MATH 096 or 110 or equivalent	Prerequisite: "C" grade or higher or "Pass" in MATH 110 or appropriate mathematics assessment
RELIGIOUS STUDIES 170 – INTRODUCTION TO THE NEW TESTAMENT Introduction to the history and culture of the New Testament period, the methods of critical analysis of Biblical materials, and the content of the New Testament.	**INTRODUCTION TO CHRISTIANITY** This course will provide an introduction to the Christian religion, with a focus on the history of its development. Its scriptures, rituals, and beliefs will be examined, as well as important persons, groups, and events which have developed among the Roman, Orthodox, and Protestant communities of Christianity.
SOCIOLOGY 120 – INTRODUCTORY SOCIOLOGY Introductory study of the basic concepts, theoretical approaches, and methods of sociology. Topics typically include the analysis and explanation of social structure, group dynamics, socialization and the self, social stratification, culture and diversity, social change and global dynamics. Course objectives include the ability to apply sociological ideas to everyday life.	Introductory study of the major concepts, theoretical approaches, and methods of sociology. Topics include social structure, culture, social control, deviance, social stratification, globalization, ethnic and race relations, gender, sexuality, social institutions, social interaction, socialization and social change. Course objectives include the ability to apply sociological ideas to everyday life.
SOCIOLOGY 125 – MARRIAGE, FAMILY AND ALTERNATIVE LIFESTYLES Sociological analysis of family as an institution, including historical and recent changes, present nature and socio-cultural and economic forces shaping these changes.	An introduction to the sociological analysis of families, marriages and intimate relationships. Family life and intimate relationships in contemporary American society are examined from the perspectives of different ethnic and racial groups with a focus on the intersectionality of race, class, gender and sexuality. Emphasis is placed on the analysis of the family's relationship to economic structures, political institutions and belief systems in different socio-cultural and historical contexts. Topics include: history of the family, family diversity and inequality, socialization, sexuality, child and intimate partner violence and abuse, courtship, interracial friendships and romantic relationships, singlehood, marriage, communication patterns, parenting, adoption, divorce, remarriage, step-families, widowhood, aging, and the future of the family.

DISTANCE EDUCATION

Course	Title
ARBC 130	Arabic Literature and Culture
ESL 2 (formerly ESL 120)	Accelerated Composition for English as a Second Language
ETHN 166	Introduction to Native American Politics and Policy
HUM 117	Kumeyaay Arts and Culture II
POSC 166	Introduction to Native American Politics and Policy
POSC 180	Introduction to Public Policy

DEGREE AND CERTIFICATE ADDITIONS

BUSINESS ADMINISTRATION FOR TRANSFER 2.0 (AS-T)

This program is designed to provide students with the common core of lower division courses required to transfer and pursue a baccalaureate degree in Business Administration. This includes business degrees with options such as accounting, finance, human resources management, international business, management, operations management, and marketing. This major aligns with the California State University (CSU) Bachelor of Science in Business Administration.

The following is required for the AS-T in Business Administration for Transfer degree:
1. Minimum of 60 CSU-transferable semester units.
2. Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework.
3. Minimum of 18 semester or 27 quarter units in the major.
4. A grade of "C" or better in all courses required for the major.
5. Certified completion of the California State University General Education (CSU GE) Breadth pattern OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern; see Degree Requirements and Transfer Information section for more information.
   Note: If following IGETC, IGETC-CSU must be followed for admission to a CSU.

Program Outcomes

Upon completion of this program, students will be able to:
- Recognize essential functions and concerns specific to human resources, management, and general business operations.
- Identify and analyze business problems or entrepreneurial opportunities and effectively communicate recommendations for courses of actions.

Associate in Science Degree Requirements:

Core Curriculum:

Course	Title	Units
BUS 120	Financial Accounting	4
BUS 121	Managerial Accounting	4
BUS 125	Business Law: Legal environment of Business	3
BUS 128	Business Communication	3
ECON 120	Principles of Macroeconomics	3
ECON 121	Principles of Microeconomics	3
MATH 160	Elementary Statistics	4
or		
PSY 215	Statistics for the Behavioral Sciences	4
MATH 178	Calculus for Business, Social and Behavioral Sciences	4
or		
MATH 180	Analytical Geometry and Calculus	<u>5</u>
	Total Units for Major (9 units may be double-counted with GE)	28-29
	Total Additional Units for CSU GE Breadth or IGETC-CSU	39/37
	Total Transferable Elective Units	1-4
	Total Units for Degree	60

Please note: SDSU accepts this degree for students transferring into Business Administration (Financial Services) or Business Administration (General) majors.

ETHNIC STUDIES

Ethnic Studies is a dynamic academic discipline and community that provides an understanding of the history, culture, and contributions of African Americans, Asian Americans, Latino/a/x Americans, Middle Eastern Americans, and Native Americans. Courses introduce students to the concepts of race and ethnicity, how race and ethnicity intersect with other forms of identity, and the role of power and inequality in the United States. It is an interdisciplinary degree, drawing from the arts, English, history, humanities, Kumeyaay studies, political science, sociology, and others. Ethnic Studies faculty foster community and promote civic engagement and social justice through a variety of panels, presentations, and field trips.

Program Learning Outcomes
Upon successful completion of this program, students will be able to:
● Interpret and evaluate evidence by analyzing biases, patterns, trends, and relationships.
● Evaluate and apply subject matter to students' lived experiences and current events.
● Analyze how power and privilege operate in society, through the categories of race, class, gender, ethnicity, and sexuality.
● Develop and support arguments with evidence, including academic and organic (i.e. cultural, traditional, and experiential).
● Research and explore career options and/or obtain experience in a career field.

Associate in Arts Degree Requirements:
Core Curriculum:

Course	Title	Units
Course	*Title*	*Units*
ETHN/HIST 107	History of Race and Ethnicity in the U.S.	3
ETHN/HUM 111	Culture, Art, and Ideas of the United States	3
ETHN/SOC 114	Introduction to Race & Ethnicity	<u>3</u>
		9

List A: Select two of the following:

Course	Title	Units
ETHN/HIST 118	U.S. History: Chicano/Chicana Perspectives I	3
ETHN/HIST 119	U.S. History: Chicano/Chicana Perspectives II	3
ETHN/HIST 130	U.S. History and Cultures: Native American Perspectives I	3
ETHN/HIST 131	U.S. History and Cultures: Native American Perspectives II	3
ETHN/HIST 132	Kumeyaay History I: Precontact – 1845	3
ETHN/HIST 133	Kumeyaay History II: 1846 – Present	3
ETHN/HIST 180	U.S. History: Black Perspectives I	3
ETHN/HIST 181	U.S. History: Black Perspectives II	<u>3</u>
		6

List B: Select two of the following

Course	Title	Units
ETHN/ENGL 236	Chicana/o Literature	3
ETHN/ENGL 238	Black Literature	3
ETHN/POSC 165	Introduction to the Politics of Race and Gender	3
ETHN/POSC 166	Introduction to Native American Politics and Policy	3
ETHN/SOC 150	Latinx Sociology	<u>3</u>
		6

	Total Required	21
	Plus General Education Requirements	

DEGREE AND CERTIFICATE MODIFICATIONS

ACCOUNTING

BOOKKEEPING CERTIFICATE

This certificate is for students who need very specific training in the area of bookkeeping/~~accounting~~, either to obtain the necessary skills for an entry level office position, <u>start their own business,</u> or ~~to~~ provide technical competence for advancement within the office environment.

Program Learning Outcomes:
Upon successful completion of this certificate, students will be able to:
- Apply bookkeeping concepts, principles, standards and processes.
- Demonstrate information technology skills as they apply to today's business environment to solve business problems and to communicate those solutions.
- Use personal and ethical frameworks to respond to ethical dilemmas.

Certificate Requirements:

Course	Title	Units
BOT 123-125	Comprehensive Excel Levels I-III	3
BOT 174	Computer Concepts and Applications	3
BUS 109	Elementary Accounting	3
or		
BUS 120	Financial Accounting	4
~~BUS 121~~	~~Managerial Accounting~~	~~4~~
BUS 128	Business Communication	3
or		
<u>BUS 125</u>	Business Law	3
BUS 129	Payroll Accounting and Business Taxes	2
BUS 176	Computerized Accounting Applications	2
	Total Required	~~20 21~~<u>16-17</u>

Note: BUS 109 may be taken instead of BUS 120 for the Bookkeeping certificate only.

Certificate of Achievement
Students who complete the requirements above qualify for a Certificate in Bookkeeping. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

ARABIC STUDIES

The Associate in Arts in Arabic Studies is designed to provide a greater understanding of Arabic language, history, culture and heritage, with particular emphasis on reading, writing and speaking the Arabic language. The Arabic Studies degree prepares students for career opportunities that require competency in the Arabic language. Through specific coursework for this degree, students will have a deeper appreciation and understanding of Arabic heritage and civilization.

Program Outcomes
Upon successful completion of this program, students will be able to:
● Communicate in the Arabic language at the intermediate level in a variety of settings.
● Acquire an understanding of Arabic civilization and heritage.
● Gain sensitivity, globalism and cultural competence.

Associate in Arts Degree Requirements:

Course	Title	Units
ARBC 120	Arabic I	5
ARBC 121	Arabic II	5
<u>ARBC 130</u>	<u>Arabic Literature and Culture</u>	<u>3</u>
ARBC 145	Arabic Civilizations	3
ARBC 122	Arabic for the Native Speaker I	5
or		
ARBC 220	Arabic III	5
<u>ARBC/BOT 180</u>	<u>Basic Computer Skills for Arabic Learners</u>	<u>1</u>
ARBC 123	Arabic for the Native Speaker II	5
or		
ARBC 221	Arabic IV	5
ARBC 250	Conversational Arabic I	3
or		
ARBC 254	Conversational Iraqi Dialect	3
ARBC 251	Conversational Arabic II	<u>3</u>
	Total Required	~~29~~<u>33</u>
	Plus General Education Requirements	

Certificate of Achievement
Students who complete only the major requirements above qualify for a Certificate in Arabic Studies. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

COMPUTER AND INFORMATION SCIENCE

NETWORKING, SECURITY AND SYSTEM ADMINISTRATION - ENTERPRISE NETWORKING

These degree programs prepare students for careers in computer networking or system administration and related fields. Upon completion, students may find entry level positions as computer support technicians, junior network administrators, junior system administrators, hardware technicians, data/ voice/video cabling technicians, network project managers, designers/estimators or technical support personnel. The major prepares students to work as team members in an information technology group which designs, evaluates, tests, installs and maintains corporate networks. Preparation for the following industry certifications: A+, Network+, Security+, Linux+, Microsoft Certified Technician (MCT) in Windows and Windows Server (active directory, network infrastructure and applications infrastructure), Linux Profession Institute Certification Level 2, Certified Wireless Network Administrator (CWNA), CiscoISCO Certified Network Associate (CCNA), Certified Ethical Hacking (CEH).

Program Learning Outcomes
Upon successful completion of this program, students will be able to:
- Install, configure, upgrade, diagnose and troubleshoot a personal computer and its associated networking hardware and software in accordance with industry standards.

Associate in Science Degree Requirements:

Core Curriculum:

Course	Title	Units
CIS 120	Computer Maintenance and A+ Certification	3
CIS 121	Network Cabling Systems	3
CIS 125	Network+ Certification	3
CS 119	Program Design and Development	3
CS 119L	Program Design and Development Lab	1
		13

Areas of Emphasis:

CIS 190	Windows Operating System	3
or		
CIS 191	Linux Operating System	3
CIS 201	Cisco Networking Academy – Introduction to Networking	3
CIS 202	Cisco Networking Academy II– Routing, Switching, and Wireless Essentials	3
CIS 203	Cisco Networking Academy III– Enterprise Networking, Security, and Automation	3
CIS 204	Cisco Networking Academy IV	3
CIS 209	Cisco CCNA Security CyberOps	3
or		
CIS 263	Fundamentals of Network Security	3
		18 15

Select three of the following:

CIS 101	Fundamental of Information Technology	1.5
CIS 210	Cisco Networking Academy–Voice	4
CIS 261	NSSA Degree Capstone	2
CIS 262	Wireless Networking	3
CIS 264	Certified Ethical Hacking	3
CIS 265	Computer Forensics	3
CIS 271	Palo Alto Networks – Certified Network Security Administrator (PCNSA)	3
CIS 272	Palo Alto Networks Firewall Configuration, Management, and Threat Prevention	3
		6.5-10
	Total Required Including Core Classes	37.5-41 34.5-38
	Plus General Education Requirements	

Certificate of Achievement

Students who complete only the courses required for the major including an area of emphasis qualify for a Certificate in Networking, Security and System Administration - Enterprise Networking. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

GENERAL STUDIES

GENERAL STUDIES: BUSINESS AND TECHNOLOGY

The Associate Degree in General Studies with an Area of Emphasis provides an opportunity for students to design a program of study meaningful and appropriate to their own needs and academic interests. The degree includes general education and a focused area of study. Students may choose to earn this degree for preparation for employment or for personal development.

REQUIREMENTS
To meet the General Studies degree requirements, a student must complete the following:
I.   **AS or AA General Education Requirements** (see Degree Requirements and Transfer Information section)
AND
II. Choose a minimum of 18 units from one Area of Emphasis:
- Business and Technology
- A.   ~~Business and Technology~~
- B.   ~~Communication and Language Arts~~
- C.   ~~Humanities and Fine Arts~~
- D.   ~~Lifelong Health, Well-Being and Self-Development~~
- E.   ~~Science and Mathematics~~
- F.   ~~Social and Behavioral Sciences~~

~~A.Business and Technology~~

The Associate in Science in General Studies with an Emphasis in Business and Technology will be awarded to students upon completion of general education degree requirements and 18 units in this area. These courses emphasize the study of business transaction theory and practice, the operations and strategies of business decisions, legal concepts, and the place of business in the American and global economy as a whole. Students will apply mathematical and quantitative reasoning skills to the discipline's methodologies, as well as evaluate and interpret basic economic principles and theories related to performance and specific economic sectors. Students must take a minimum of three units from each area. The remaining units may be taken from any area.

Program Learning Outcomes
Upon successful completion of this program, students will be able to:
• Contribute to an effective and ethical organization.
• Use information technology to support effective decision making in the business organization.
• Analyze markets, economic environments and associated trends at the macro and micro levels.
• Express and apply quantitative information in order to make sound decisions and solve problems in the business environment.

Business
BUS 109, 110, 111, 115, 120, 121, 122, 124, 125, 128, 129, 150, 155, 156, 161, 162, 176, 195

Computer and Information Science
CIS 105, 110, 120, 121, 125, 140, 162, 190, 191, 201, 202, 203, 204, 205, 211, 213, 215, 219, 261, 262, 263, 290, 291

Economics
ECON 110, 120, 121

Mathematics
MATH 121, 160, 178, 180

GENERAL STUDIES: COMMUNICATION AND LANGUAGE ARTS

The Associate Degree in General Studies with an Area of Emphasis provides an opportunity for students to design a program of study meaningful and appropriate to their own needs and academic interests. The degree includes general education and a focused area of study. Students may choose to earn this degree for preparation for employment or for personal development.

REQUIREMENTS
To meet the General Studies degree requirements, a student must complete the following:
I.   **AS or AA General Education Requirements** (see Degree Requirements and Transfer Information section)
AND
II. Choose a minimum of 18 units from one Area of Emphasis:
- Communication and Language Arts
- A.   ~~Business and Technology~~
- B.   ~~Communication and Language Arts~~
- C.   ~~Humanities and Fine Arts~~
- D.   ~~Lifelong Health, Well-Being and Self-Development~~
- E.   ~~Science and Mathematics~~
- F.   ~~Social and Behavioral Sciences~~

~~B. Communication and Language Arts~~

The Associate in Arts in General Studies with an Emphasis in Communication and Language Arts will be awarded to students upon completion of general education degree requirements and 18 units in this area. These courses emphasize the study of how language works to express human ideas and feelings. Students will explore and analyze written and verbal communication methods, as well as develop and

advance their oral and written communication skills. Students must complete a minimum of ~~six~~ <u>three</u> units in Communication and ~~six~~ <u>three</u> units in Language Arts. The remaining ~~six~~ <u>twelve</u> units may be taken from either category.

Program Learning Outcomes
Upon successful completion of this program, students will be able to:
• Demonstrate the ability to write effectively.
• Demonstrate the ability to locate relevant, reliable information and read it effectively.
• Organize thoughts and ideas in both oral and written format.
• Communicate effectively with diverse audiences.

Communication
BUS 128
COMM 110, 120, 122, 123, 124, 130, 135, 137, 145

Language Arts
ARAM 120, 121, 220
ARBC 120, 121, 122, 123, 220, 221, 250, 251, 254
ASL 120, 121, 220, 221
BUS 128
ENGL 122, 124, 126, 201, 202, ~~214,~~ 217, 221, 222, 231, 232, <u>236, 238,</u> 270, 271
<u>ETHN 236, 238</u>
NAKY 120, 121, 220
SPAN 120, 121, 220, 221, 250, 251

GENERAL STUDIES: HUMANITIES AND FINE ARTS

The Associate Degree in General Studies with an Area of Emphasis provides an opportunity for students to design a program of study meaningful and appropriate to their own needs and academic interests. The degree includes general education and a focused area of study. Students may choose to earn this degree for preparation for employment or for personal development.

REQUIREMENTS
To meet the General Studies degree requirements, a student must complete the following:
I. **AS or AA General Education Requirements** (see Degree Requirements and Transfer Information section)
AND
II. Choose a minimum of 18 units from one Area of Emphasis:
   • <u>Humanities and Fine Arts</u>
   A. ~~Business and Technology~~
   B. ~~Communication and Language Arts~~
   C. ~~Humanities and Fine Arts~~
   D. ~~Lifelong Health, Well-Being and Self-Development~~
   E. ~~Science and Mathematics~~
   F. ~~Social and Behavioral Sciences~~

~~**C. Humanities and Fine Arts**~~
The Associate in Arts in General Studies with an Emphasis in Humanities and Fine Arts will be awarded to students upon completion of general education degree requirements and 18 units in this area. These courses emphasize the study of cultural, humanistic activities and artistic expression of human beings. Students will evaluate and interpret the ways in which people through the ages in different cultures have responded to themselves and the world around them through artistic and cultural creation. Students will develop an aesthetic awareness and incorporate these concepts when constructing value judgments. Students must complete a minimum of ~~six~~ <u>three</u> units in Humanities and ~~six~~ <u>three</u> units in Fine Arts. The remaining ~~six~~ <u>twelve</u> units may be taken from either category.

Program Learning Outcomes
Upon successful completion of this program, students will be able to:
• Analyze the principle elements of representative examples of art, architecture, literature, theater, philosophy, music, dance, film, or other relevant areas of cultural and/or intellectual creativity.
• Demonstrate an awareness of the historical and philosophical contexts of representative areas, movements, media, works, or styles of cultural and/or intellectual creativity.
• Employ the language, concepts and methods of interpretive criticism as applicable to the respective categories of human creativity.
• When applicable, apply artistic processes and skills as a creative expression, using a variety of media to communicate meaning and intent in original works of art.

Humanities
ARAM 120, 121, 220
ARBC 120, 121, 122, 123, 220, 221, 250, 251, 254
ART 140, 141, 143, 145, 146, 149
ASL 120, 121, 140, 220, 221
ENGL 122, 201, 202, ~~214,~~ 217, 221, 222, 231, 232, <u>236, 238,</u> 270, 271
<u>ETHN 111, 236, 238</u>
HIST 100, 101, 105, 106, <u>114, 115</u>
HUM 110, <u>111,</u> 115, 116, <u>117,</u> 120, 140, 155

(General Studies continued)

NAKY 120, 121, 220
PHIL 110, 115, 117, 140, <u>141,</u> 160, 170
RELG 120, 130, 160, 170
SPAN 120, 121, 220, 221, 250, 251

Fine Arts
ART 100, 120, 121, 124, 125, 129, 135, 140, 141, 143, 144, 145, 146, 148, 220, 221, 222, 224, 225, 230, 231, 232, 233, 235, 236, 241, 242
MUS 110, 111, 115, 116, 117, <u>123</u>
THTR 110

GENERAL STUDIES: SCIENCE AND MATHEMATICS

The Associate Degree in General Studies with an Area of Emphasis provides an opportunity for students to design a program of study meaningful and appropriate to their own needs and academic interests. The degree includes general education and a focused area of study. Students may choose to earn this degree for preparation for employment or for personal development.

REQUIREMENTS
To meet the General Studies degree requirements, a student must complete the following:
I.   AS or AA General Education Requirements (see Degree Requirements and Transfer Information section)
AND
II.   Choose a minimum of 18 units from one Area of Emphasis:
- <u>Science and Mathematics</u>
- A.   ~~Business and Technology~~
- B.   ~~Communication and Language Arts~~
- C.   ~~Humanities and Fine Arts~~
- D.   ~~Lifelong Health, Well-Being and Self-Development~~
- E.   ~~Science and Mathematics~~
- F.   ~~Social and Behavioral Sciences~~

~~E.   Science and Mathematics~~
The Associate in Science in General Studies with an Emphasis in Science and Mathematics will be awarded to students upon completion of general education degree requirements and 18 units in this area. These courses emphasize the study of mathematical and quantitative reasoning skills and apply the facts and principles that form the foundations of living and non-living systems. Students will recognize and utilize the methodologies of science as investigative tools, as well as the limitations of science. Students will use mathematical skills to solve numerical problems encountered in daily life, and more advanced skills for applications in the physical and life sciences. Students must complete a minimum of ~~six~~ <u>three</u> units in Science and ~~six~~ <u>three</u> units in Mathematics (limitation of one statistics course). The remaining ~~six~~ <u>twelve</u> units may be taken from any category.

Program Learning Outcomes
Upon successful completion of this program, students will be able to:
• Use algebraic methods to solve problems.
• Interpret basic mathematical models and draw inferences from them.
• Represent mathematical information symbolically, visually, numerically and verbally.
• Use the scientific method of inquiry and techniques to answer questions about physical and biological processes.
• Analyze basic concepts of physical and biological science to evaluate scientific information and solve scientific problems.

Science
ANTH 130
ASTR 110, 112
BIO 112, 115, 122, 130, 131, 133, 134, 135, 140, 141, 141L, 152, 230, 240, 251
CHEM 102, 115, 116, 120, 141, 142, 231, 232
ET 110
GEOG 120, 121
GEOL 104, 110, 111
OCEA 112, 113
PHYC 110, 130, 131, 190, 200, <u>201, 202, 203,</u> 210

Mathematics
BIO 215
MATH 160, 170, 175, 176, 178, 180, 245, 280, 281, 284, 285
PSY 215

CADD and Engineering
CADD 115, 120, 125, 129, 131
ENGR 100, 119, 120, 125, 129, 175, 176, 218, 270

Computer Science
CS 119, 119L, 181, 182, 281, 282

(General Studies continued)

GENERAL STUDIES: SOCIAL AND BEHAVIORAL SCIENCES

The Associate Degree in General Studies with an Area of Emphasis provides an opportunity for students to design a program of study meaningful and appropriate to their own needs and academic interests. The degree includes general education and a focused area of study. Students may choose to earn this degree for preparation for employment or for personal development.

REQUIREMENTS
To meet the General Studies degree requirements, a student must complete the following:
I.   AS or AA General Education Requirements (see Degree Requirements and Transfer Information section)
AND
II.Choose a minimum of 18 units from one Area of Emphasis:
- Social and Behavioral Sciences
- A.   ~~Business and Technology~~
- B.   ~~Communication and Language Arts~~
- C.   ~~Humanities and Fine Arts~~
- D.   ~~Lifelong Health, Well-Being and Self-Development~~
- E.   ~~Science and Mathematics~~
- F.   ~~Social and Behavioral Sciences~~

~~Social and Behavioral Sciences~~
The Associate in Arts in General Studies with an Emphasis in Social and Behavioral Sciences will be awarded to students upon completion of general education degree requirements and 18 units in this area. These courses emphasize the study and understanding of human behavior. Students will evaluate and interpret human societies; the institutions, organizations and groups that form them; the ways in which individuals and groups r elate to one another; and various approaches and methodologies of the disciplines. Students must complete a minimum of ~~six~~ three units in Social Science and ~~six~~ three units in Behavioral Science. The remaining ~~six~~ twelve units may be taken from either category.

Program Learning Outcomes
Upon successful completion of this program, students will be able to:
- Describe general principles of the political institutions and government of the United States.
- Demonstrate an understanding and appreciation of social, political, and economic institutions within a historical perspective.
- Evaluate the ways people act and interact in cultures, societies and social subgroups.
- Assess how social issues are influenced by geographical and historical processes.
- Apply knowledge of social and behavioral sciences theories and scientific methods in an assessment of real-world problems.

Social Science
ANTH 120, 140
ARBC 145
BIO 134
CD 145
ECON 110, 120, 121
ETHN 107, 114, 118, 119, 130, 131, 132, 133, 150, 165, 166, 180, 181,
GEOG 106, 122, 130
HIST 100, 101, 105, 106, 107, 108, 109, 118, 119, 122, 123, 124, 130, 131, 132, 133, 148, 180, 181, 275, 276, 277
POSC 120, 121, 124, 130, 140, 165, 166, 170
SOC 114, 120, 125, 130, 138, 140, 150
SPAN 145

Behavioral Science
CD 115, 125, 131
COMM 110, 124
HED 120, 201, 203, 204, 251
NUTR 158
PSY 120, 125, 134, 138, 140, 150, 170, 201, 211, 220

HISTORY FOR TRANSFER (AA-T)

This degree program is useful for students preparing for careers in teaching, the law, government service, and research. The history program offers a diverse transfer curriculum and is committed to equity-minded teaching in an atmosphere of academic excellence. History course offerings focus on global cultures, historically-underrepresented groups in the United States, and the development of American Institutions. History courses also emphasize research, writing, and interpretive skills that are essential to the college's General Education mission. History faculty create a vibrant intellectual campus culture and promote civic engagement through a variety of panels, presentations, and field trips.

The following is required for the AA-T in History for Transfer degree:
1. Minimum of 60 semester or 90 quarter CSU-transferable units.
2. Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework.
3. Minimum of 18 semester or 27 quarter units in the major.
4. A grade of "C" or better in all courses required for the major.
5. Certified completion of the California State University General Education (CSU GE) Breadth pattern OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern; see Degree Requirements and Transfer Information section for more information. Note: If following IGETC, IGETC-CSU must be followed for admission to a CSU.

Program Learning Outcomes
Upon successful completion of this program, students will be able to:
- ~~Recognize theories of historical interpretation.~~
- ~~Describe historical and philosophical underpinnings of government systems and ideologies.~~
- ~~Demonstrate how literature and the arts help us understand the past.~~
- ~~Define historical periods and transitions.~~
- ~~Distinguish between primary and secondary sources.~~
- Interpret and evaluate evidence by analyzing biases, patterns, trends, and relationships.
- Evaluate and apply subject matter to students' lived experiences and current events.
- Analyze how power and privilege operate in society, through the categories of race, class, gender, ethnicity, and sexuality.
- Develop and support arguments with evidence, including academic and organic (i.e. cultural, traditional, and experiential).
- Research and explore career options and/or obtain experience in a career field.

Associate in Arts Degree Requirements
Core Curriculum:

Course	Title	Units
HIST 108	Early American History	3
HIST 109	Modern American History	3
		6

List A: Select six units:

HIST 100	Early World History	3
or		
HIST 105	Early Western Civilization	3
HIST 101	Modern World History	3
or		
HIST 106	Modern Western Civilization	3
		6

List B: Select one course from each group:

Group 1: Select one of the following ~~diversity~~ courses:
~~118, 119, 130, 131, 132, 133, 180, 181, or HIST 100 or 101 if not selected above~~

HIST/ETHN 107	History of Race & Ethnicity in the United States	3
HIST/ETHN 118	U.S. History: Chicano/Chicana Perspectives I	3
HIST/ETHN 119	U.S. History: Chicano/Chicana Perspectives II	3
HIST/ETHN 130	U.S. History and Cultures: Native American Perspectives I	3
HIST/ETHN 131	U.S. History and Cultures: Native American Perspectives II	3
HIST/ETHN 132	Kumeyaay History I: Precontact - 1845	3
HIST/ETHN 133	Kumeyaay History II: 1846 - Present	3
HIST/ETHN 180	U.S. History: Black Perspectives I	3
HIST/ETHN 181	U.S. History: Black Perspectives II	3
or HIST 100 or 101 if not selected above		3
		3

Group 2: Select one of the following courses:
~~ANTH 120, 140~~
~~ART 100, 140, 141, 143, 144, 145~~
~~ENGL 122, 221, 222, 231, 232, 236, 238~~
~~HIST 122, 123, 124, or any history course not selected above~~

(History continued)

~~HUM 110, 115, 116, 120, 140, 155~~
~~MUS 110, 111, 116~~
~~PHIL 160, 170~~
~~POSC 120, 121, 124, 130, 140~~
~~RELG 120~~   ~~3~~
                                                                                                    ~~6~~

HIST 114	Comparative History of the Early Americas	3
HIST 115	Comparative History of the Modern Americas	3
HIST 122	Women in Early American History	3
HIST 123	Women in Modern American History	3
HIST 124	History of California	3
HIST 148	The Modern Middle East	3
HUM/ETHN 111	Culture, Art, & Ideas of the United States	3
HUM 115	Arts and Culture in Local Context-San Diego	3
HUM 116	Kumeyaay Arts and Culture	3
POSC 140	Introduction to California Government and Politics	3
POSC/ETHN 166	Introduction to Native American Politics and Policy	3
or any course from Group 1 not selected		3
		3
		6

Total Units for Major (18 units may be double-counted with GE)   18
Total Units for CSU GE Breadth or IGETC CSU   39-37
Total Transferable Elective Units   3-5
Total Units for Degree   60

Please note: SDSU accepts this degree for students transferring into History B.A.

HISTORY

~~This major prepares students for transfer to four-year institutions for continued study in the field of history. The degree program fulfills the lower division requirements for most majors in the history department at San Diego State University and is typical of requirements at other four-year schools. For special requirements, transfer students should consult the catalog of the college or university of their choice. History classes provide useful background for students in such fields as history, education, political science and law.~~ This degree program is useful for students preparing for careers in teaching, the law, government service, and research. The history program offers a diverse transfer curriculum and is committed to equity-minded teaching in an atmosphere of academic excellence. History course offerings focus on global cultures, historically underrepresented groups in the United States, and the development of American Institutions. History courses also emphasize research, writing, and interpretive skills that are essential to the college's General Education mission. History faculty create a vibrant intellectual campus culture and promote civic engagement through a variety of panels, presentations, and field trips.

Program Learning Outcomes
Upon successful completion of this program, students will be able to:
- ~~Recognize theories of historical interpretation.~~
- ~~Describe historical and philosophical underpinnings of government systems and ideologies.~~
- ~~Demonstrate how literature and the arts help us understand the past.~~
- ~~Define historical periods and transitions.~~
- ~~Distinguish between primary and secondary sources.~~

- Interpret and evaluate evidence by analyzing biases, patterns, trends, and relationships.
- Evaluate and apply subject matter to students' lived experiences and current events.
- Analyze how power and privilege operate in society, through the categories of race, class, gender, ethnicity, and sexuality.
- Develop and support arguments with evidence, including academic and organic (i.e. cultural, traditional, and experiential).
- Research and explore career options and/or obtain experience in a career field.

CAREER OPPORTUNITIES
* Anthropologist
* Archaeologist
  Attorney
* Cartographer
* College History Professor
* Historian
* Intelligence Analyst
* Journalist
  Legislative Assistant

(History continued)

    Politician
* Research Historian
* Secondary School Teacher
    Travel Advisor
    Technical Writer
* Textbook Writer/Editor

* Bachelor Degree or higher required

Associate in Arts Degree Requirements:
Select twelve units from any two of the following sequences:

Course	Title	Units
Course	*Title*	*Units*
HIST 100	Early World History	
HIST 101	Modern World History	6
HIST 105	Early Western Civilization	
HIST 106	Modern Western Civilization	6
HIST 108	Early American History	
HIST 109	Modern American History	6
		12

~~Select six units from the following:~~

~~HIST 114~~	~~Comparative History of the Early Americas~~	~~3~~
~~HIST 115~~	~~Comparative History of the Modern Americas~~	~~3~~
~~HIST 118~~	~~U.S. History: Chicano/Chicana Perspectives I~~	~~3~~
~~HIST 119~~	~~U.S. History: Chicano/Chicana Perspectives II~~	~~3~~
~~HIST 122~~	~~Women in Early American History~~	~~3~~
~~HIST 123~~	~~Women in Modern American History~~	~~3~~
~~HIST 124~~	~~History of California~~	~~3~~
~~HIST 148~~	~~Emergence of the Modern Middle East~~	~~3~~
~~HIST 180~~	~~U.S. History: Black Perspectives I~~	~~3~~
~~HIST 181~~	~~U.S. History: Black Perspectives II~~	~~3~~
		~~6~~

List A: Select one of the following courses:

HIST/ETHN 107	History of Race & Ethnicity in the United States	3
HIST/ETHN 118	U.S. History: Chicano/Chicana Perspectives I	3
HIST/ETHN 119	U.S. History: Chicano/Chicana Perspectives II	3
HIST/ETHN 130	U.S. History and Cultures: Native American Perspectives I	3
HIST/ETHN 131	U.S. History and Cultures: Native American Perspectives II	3
HIST/ETHN 132	Kumeyaay History I: Precontact - 1845	3
HIST/ETHN 133	Kumeyaay History II: 1846 - Present	3
HIST/ETHN 180	U.S. History: Black Perspectives I	3
HIST/ETHN 181	U.S. History: Black Perspectives II	3
		3

List B: Select one of the following courses:

HIST 114	Comparative History of the Early Americas	3
HIST 115	Comparative History of the Modern Americas	3
HIST 122	Women in Early American History	3
HIST 123	Women in Modern American History	3
HIST 124	History of California	3
HIST 148	The Modern Middle East	3
or any course from List A not selected		3
		3
		6

	Total Required	18
	Plus General Education Requirements	

~~Recommended Electives:~~ ~~ANTH 120, 140, ART 100, 140, 141; 143, 144, 145, ENGL 122, 221, 222, 231, 232; 236, 238, HIST 118, 122, 123, 124, 130, 131, 132, 133 or any history course not selected above, HUM 110, 115, 116, 120, 140, 155, MUS 110, 111, 116, PHIL 160, 170, POSC 120, 121, 124, 130, 140; RELG 120~~

KUMEYAAY STUDIES

The Associate in Arts program in Kumeyaay Studies is designed to provide an understanding of Kumeyaay history, culture and heritage. It is a multi-disciplinary degree, drawing from the sciences, humanities, world languages and history departments. Through specific coursework that encompasses on-site learning experiences, students will learn about the Kumeyaay Nation of San Diego's East County region.

Program Learning Outcomes
Upon successful completion of this program, students will be able to:
• Communicate in the Kumeyaay language at a basic level in a variety of settings;
• Acquire an understanding of Kumeyaay heritage, history, society and traditions;
• Gain sensitivity, globalism and cultural competence of a unique group of people.
• Interpret and evaluate evidence by analyzing biases, patterns, trends, and relationships.
• Evaluate and apply subject matter to students' lived experiences and current events.
• Analyze how power and privilege operate in society, through the categories of race, class, gender, ethnicity, and sexuality.
• Develop and support arguments with evidence, including academic and organic (i.e. cultural, traditional, and experiential).
• Research and explore career options and/or obtain experience in a career field.

Associate in Arts Degree Requirements:

Course	Title	Units
ANTH 150	Introduction to Cultural Resource Management	3
BIO 133	Ethnoecology	3
or		
BIO 134	Ethnobotany	3
BIO 135	Ethnobotany/Ethnoecology Lab	1
HIST 132	Kumeyaay History I: Precontact – 1900	3
HIST 133	Kumeyaay History II: 1900 – Present	3
HUM 116	Kumeyaay Arts and Culture	3
or		
HUM 117	Kumeyaay Arts and Culture II	3
NAKY 120	Kumeyaay I	4
NAKY 121	Kumeyaay II	4
		24

List A, Select One:

Course not taken above (BIO 133 or BIO 134 or HUM 116 or HUM 117)		3
NAKY 220	Kumeyaay III	4
POSC/ETHN 166	Introduction to Native American Politics and Policy	3
		3-4
	Total Required	27-28
	Plus General Education Requirements	

Certificate of ~~Specialization~~ Achievement
Students who complete the requirements below qualify for a Certificate in Kumeyaay Studies. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

Program Learning Outcomes
Upon successful completion of this certificate, students will be able to:
• Communicate in the Kumeyaay language at a basic level in a variety of settings.
• Acquire an understanding of Kumeyaay heritage, history, society and traditions.
• Gain sensitivity, globalism and cultural competence of a unique peoples
• Interpret and evaluate evidence by analyzing biases, patterns, trends, and relationships.
• Evaluate and apply subject matter to students' lived experiences and current events.
• Analyze how power and privilege operate in society, through the categories of race, class, gender, ethnicity, and sexuality.
• Develop and support arguments with evidence, including academic and organic (i.e. cultural, traditional, and experiential).
• Research and explore career options and/or obtain experience in a career field.

Certificate Requirements:

Course	Title	Units
BIO 133	Ethnoecology	3
or		
BIO 134	Ethnobotany	3
HIST 132	Kumeyaay History I: Precontact-1900	3
HUM 116	Kumeyaay Arts and Culture	3
or		
HUM 117	Kumeyaay Arts and Culture II	3
NAKY 120	Kumeyaay I	4
		~~10~~13

(Kumeyaay Studies continued)

Select one of the following:

Course not taken above (BIO 133 or BIO 134 or HUM 116 or HUM 117)		3
ANTH 150	Introduction Cultural Resource Management	3
~~BIO 133*~~	~~Ethnoecology~~	~~3~~
HIST 133	Kumeyaay History II: 1900-Present	3
HUM 116	Kumeyaay Arts and Culture	3
NAKY 121	Kumeyaay II	4
NAKY 220	Kumeyaay III	4
POSC/ETHN 166	Introduction to Native American Politics and Policy	3
		3-4
	Total Required	~~13-14~~16-17

~~*BIO 133 may be counted one time only~~

MATHEMATICS

MATHEMATICS FOR TRANSFER (AS-T)

This program is designed to prepare students for transfer to a California State University (CSU) with the intent of earning a B.S. degree in Mathematics. Since jobs requiring mathematical skills such as data analysis, problem solving, pattern recognition, statistics, and probability are in high demand, the mathematics major may benefit both educationally and economically from developing and pursuing an interest in mathematics. Mathematical skills and statistical methods are employed regularly by researchers testing hypotheses, by workers applying quality control in manufacturing, and by informed citizens who must evaluate information from the media in tabular, graphical, and report form in order to reach solutions. This major offers a foundation in these necessary skills. The emphasis is to prepare students for transfer to a four-year institution and/or for career preparation in a vocational or professional field.

The following is required for the AS-T in Mathematics for Transfer degree:
1. Minimum of 60 semester or 90 quarter CSU-transferable units.
2. Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework.
3. Minimum of 18 semester or 27 quarter units in the major.
4. A grade of "C" or better in all courses required for the major.
5. Certified completion of the California State University General Education (CSU GE) Breadth pattern OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern; see Degree Requirements and Transfer Information section for more information. Note: If following IGETC, IGETC-CSU must be followed for admission to a CSU.

Program Learning Outcomes
Upon successful completion of this program, students will be able to:
- Apply mathematical reasoning and problem solving strategies to analyze, interpret, and model applications from degree and transfer-level courses and programs in math, science, engineering, business, and technology.
- Select and apply appropriate definitions, postulates, and theorems to prove mathematical statements.

Associate in Science Degree Requirements:
Core Curriculum:

Course	Title	Units
MATH 180	Analytic Geometry and Calculus I	5
MATH 280	Analytic Geometry and Calculus II	4
MATH 281	Multivariable Calculus	4
		13

List A: Select one of the following:

MATH 284	Linear Algebra	3
MATH 285	Differential Equations	3
		3

List B: Select one of the following:

CS 181	Intro to C++ Programing	4
MATH 160	Elementary Statistics	4
MATH 245	Discrete Mathematics	3
~~PHYC 190~~	~~Mechanics and Heat~~	~~5~~
PHYC 201	Mechanics and Waves	5
Any course from List A not selected:		3
		3-5

	Units
Total Units for Major (~~3-6~~ 7 units may be double-counted with GE)	19-21
Total Units for CSU GE Breadth or IGETC-CSU	39/37
Total Transferable Elective Units	~~3-5~~ 7-9
Total Units for Degree	60

Please note: SDSU accepts this degree for students transferring into Mathematics (Science Emphasis) B.S.

MATHEMATICS

Since jobs requiring mathematical skills such as data analysis, problem solving, pattern recognition, statistics, and probability are in high demand, the mathematics major may benefit both educationally and economically from developing and pursuing an interest in mathematics. Mathematical skills and statistical methods are employed regularly by researchers testing hypotheses, by workers applying quality control in manufacturing, and by informed citizens who must evaluate information from the media in tabular, graphical, and report form in order to reach solutions. This major offers a foundation in these necessary skills. The emphasis is to prepare students for transfer to a four-year institution and/or for career preparation in a vocational or professional field.

Program Learning Outcomes
Upon successful completion of this program, students will be able to:
- Apply mathematical reasoning and problem solving strategies to analyze, interpret, and model applications in STEM or business programs.
- Select and apply appropriate definitions, postulates, and theorems to prove mathematical statements.

(Mathematics continued)

CAREER OPPORTUNITIES
* Accountant
* Actuary
  Air Traffic Controller
* Auditor
† Bank Officer
* Budget Analyst
  Computer Operator
* Computer Programmer
† Cost Estimator
† Credit and Collection Manager
  Data Processing Manager
* Economist
* Engineer
* Financial Planner
  Insurance Agent/Broker
  Insurance Claim Examiner
  Laboratory Examiner
  Loan Officer
* Market Research Analyst
* Mathematician
* Mathematics Teacher
* Securities Trader
  Semiconductor Technician
* Statistician
  Surveyor
* Systems Analyst

* Bachelor Degree or higher required
† Bachelor Degree normally recommended

Associate in Science Degree Requirements:

Course	Title	Units
MATH 180	Analytic Geometry and Calculus I	5
MATH 280	Analytic Geometry and Calculus II	4
MATH 281	Multivariable Calculus	4
		13

List A: Select one of the following:

MATH 284	Linear Algebra	3
MATH 285	Differential Equations	3
		3

List B: Select one of the following:

CS 181	Introduction to C++ Programming	4
ENGR 120	Engineering Computer Applications	3
MATH 160	Elementary Statistics	4
MATH 245	Discrete Math	3
PHYC 201	Mechanics and Waves	5
~~PHYC 190~~	~~Mechanics and Heat~~	~~5~~
~~PHYC 200~~	~~Electricity and Magnetism~~	~~5~~
~~PHYC 210~~	~~Wave Motion and Modern Physics~~	~~5~~
Any course from list A not selected:		3
		3-5
	Total Required	19-21
	Plus General Education Requirements	

Recommended Electives: Students planning to transfer to four-year institutions to complete a bachelor's degree in Pure Mathematics, Applied Mathematics, or Statistics should select an emphasis in an applied discipline such as accounting, chemistry, computer science, economics, engineering, or physics. In particular, transfer students are strongly urged to elect the following physics courses: PHYC ~~190, 200, 210~~ 201, 202, 203. Students preparing for a vocational or professional career are strongly encouraged to select an emphasis in a vocational/professional discipline such as business, computer and information science, CADD technology, electronics technology, or environmental health and safety management.

Certificate of Achievement
Students who complete only the major requirements above qualify for a Certificate in Mathematics. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

POLITICAL SCIENCE FOR TRANSFER (AA-T)

The AA-T in Political Science for Transfer is designed to prepare students to transfer to a California State University (CSU) with the intent of earning a Bachelor of Arts degree in Political Science.

The following is required for the AA-T in Political Science for Transfer degree:
1. Minimum of 60 semester or 90 quarter CSU-transferable units.
2. Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework.
3. Minimum of 18 semester or 27 quarter units in the major.
4. A grade of "C" or better in all courses required for the major.
5. Certified completion of the California State University General Education (CSU GE) Breadth pattern OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern; see Degree Requirements and Transfer Information section for more information. Note: If following IGETC, IGETC-CSU must be followed for admission to a CSU.

Program Learning Outcomes
Upon successful completion of this program, students will be able to:
• Remember the major concepts of subfields of political science and their relevance to political behavior and political institutions across diverse communities and cultures.
• Understand the historical roots and major theories, conceptualizations, operationalizations, and measurements utilized in political science and its subfields from multiple perspectives.
• Apply the scientific method to explain political behavior and political institutions.
• Analyze the application of political science's abstract theories, empirical regularities, and public policy applications towards civic engagement domestically and internationally.
• Evaluate how concepts of political actors, networks, and status quo are theoretically and empirically analyzed and their application across diverse communities and cultures.
• Create a professional research project that uses the scientific method and follows ethical guidelines to analyze political phenomenon and/or a public policy project that utilizes data, geographic information systems, policy, and communication analysts' perspectives, and/or a civic engagement project that focuses on local, state, and federal public policies which promote diversity, inclusion, and equity.

Career Opportunities:
Students who earn an AA-T in Political Science from Cuyamaca College will be prepared for entry level positions such as a:
• Staff member to an elected official: local (City Councilor or Mayor), state (i.e. Statewide constitutional official, State Senator, State Assembly Member), or federal (i.e. U.S. Senator or Member of Congress)
• Staff member to an appointed official: local (i.e. City Manager or County Chief Executive Officer), regional (i.e. San Diego Association of Governments), or state (i.e. California State Water Resources Control Board Commissioner)
• Staff member in public, private, or non-profit sector's external affairs, government affairs, or regulatory affairs department
• Intern with an international government or non-governmental organization or institution
• Research assistant to a professor at a 4-year university, or a researcher at a public policy think tank, or in an institutional research department

Associate in Arts Degree Requirements:
Core Curriculum:

Course	Title	Units
POSC 121	Introduction to U.S. Government and Politics	3

List A: Select three of the following:

POSC 120	Introduction to Politics and Political Analysis	3
POSC 124	Introduction to Comparative Government and Politics	3
POSC 130	Introduction to International Relations	3
POSC 170	Introduction to Political Science Research Methods	3
		9

List B: Select two of the following:

POSC 140	Introduction to California Governments and Politics	3
POSC 165	Introduction to the Politics of Race and Gender	3
POSC 166	Introduction to Native American Politics and Policy	3
POSC 180	Introduction to Public Policy	3
~~MATH 160~~	~~Elementary Statistics~~	~~4~~
~~or~~		
~~PSY 215~~	~~Statistics for the Behavioral Sciences~~	~~4~~
Any course from List A not selected above		3
		6 ~~7~~

Total Units for Major (9 units may be double-counted with GE)	18 ~~19~~
Total Units for CSU GE Breadth or IGETC-CSU	39/37
Total Transferable Elective Units	11-12/13-14
Total Units for Degree	60

REAL ESTATE

In the Real Estate curriculum, special attention is given to the California Department of Real Estate license requirements. This degree program is designed to prepare students for employment in real estate or related fields. It also meets the educational requirements for the California Real Estate Broker's License and helps prepare the student for both the salesperson and broker for the state examinations. Most real estate classes also meet educational requirements for appraisal licensing.

Program Learning Outcomes
Upon successful completion of this program, students will be able to:
- Differentiate and describe the essential elements and legal effects of various real estate documents, steps in an escrow, real estate financing and investment, and real estate valuation techniques.
- Differentiate and describe how to conduct oneself in a professional and ethical manner in any real estate office.

CAREER OPPORTUNITIES
   Agent
† Appraiser
   Broker
   Builder/Developer
* Economist
   Escrow Officer/Trust Manager
   Investor
   Lender/Financial Institution
   Property Manager
   Salesperson
   Title Officer

* Bachelor Degree or higher required
† Office California Bureau of Real Estate Appraisers al License required

Associate in Science Degree Requirements:

Course	Title	Units
RE 190	Real Estate Principles	3
RE 191	Real Estate Practice	3
RE 192	Real Estate Finance	3
RE 193	Real Estate Legal Aspects	3
RE 194	Real Estate Appraisal	3
		15

Select three of the following including one Accounting or Economics course:

Course	Title	Units
BUS 110*	Introduction to Business	3
BUS 120	Financial Accounting	4
or		
BUS 109	Elementary Accounting	3
ECON 110	Economic Issues and Policies	3
or		
ECON 120	Principles of Macroeconomics	3
or		
ECON 121	Principles of Microeconomics	3
or		
RE 197	Real Estate Economics	3
RE 201	Real Estate Property Management	3
RE 250*	Real Estate Internship	1-4
RE 294	Advanced Real Estate Appraisal	3
Elective (select one elective from below)		3
		7-11

Electives:

Course	Title	Units
BUS 125	Business Law: Legal Environment of Business	3
RE 125	Escrow Procedures I	3
RE 204	Real Estate Office Administration	3
RE 292	Mortgage Loan Brokering and Lending	3
	Total Required	22-26
	Plus General Education Requirements	

*Non-Bureau Department of Real Estate Licensing course

Certificate of Achievement
Students who complete only the major requirements above qualify for a Certificate of Achievement in Real Estate. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

(Real Estate continued)

BROKER'S LICENSE

In the Real Estate curriculum, special attention is given to the California Department of Real Estate license requirements. This is an overall comprehensive program that will provide the student with the educational requirements needed to take the examination for a State of California Real Estate Broker license. An applicant for the broker license must have taken the eight (8) real estate courses required for this Broker's License Certificate of Achievement before taking the California State Broker Examination.

Program Learning Outcomes
Upon successful completion of this cCertificate of Achievement, students will be able to:
• Differentiate and describe the essential elements and legal effects of various real estate documents, steps in an escrow, real estate financing and investment, and real estate valuation techniques.
• Differentiate and describe how to conduct oneself in a professional and ethical manner in any real estate office.

~~Students may satisfy the California State Education requirement for a Broker's License by completing the following:~~

Course	Title	Units
RE 190	Real Estate Principles	3
RE 191	Real Estate Practice	3
RE 192	Real Estate Finance	3
RE 193	Real Estate Legal Aspects	3
RE 194	Real Estate Appraisal	3
RE 201	Real Estate Property Management	3
BUS 109	Elementary Accounting	3
or		
BUS 120	Financial Accounting	4
~~One Accounting or Economics course~~		~~3-4~~
		~~15-16~~
~~Electives: two of the following:~~		
~~RE 190~~	~~Real Estate Principles~~	~~3~~
BUS 125	Business Law: Legal Environment of Business	3
		~~6~~
	Total Required	~~21-22~~ 24-25

Certificate of Achievement
Students who complete the requirements above qualify for a Certificate of Achievement in Broker's License. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

SOCIOLOGY FOR TRANSFER (AA-T)

This degree program is designed to provide students with a broad understanding of human interaction, social processes, social structures, and tools of sociological investigation. Students completing this degree may be interested in pursuing careers in teaching, research, social work, and other behavioral science professions.

The following is required for the AA-T in Sociology for Transfer degree:
1. Minimum of 60 semester or 90 quarter CSU-transferable units.
2. Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework.
3. Minimum of 18 semester or 27 quarter units in the major.
4. A grade of "C" or better in all courses required for the major.
5. Certified completion of the California State University General Education (CSU GE) Breadth pattern OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern; see Degree Requirements and Transfer Information section for more information. Note: If following IGETC, IGETC-CSU must be followed for admission to a CSU.

Program Learning Outcomes
Upon successful completion of this program, students will be able to:
• Evaluate society and make appropriate suggestions for improvement directed at social change.
• Analyze and interpret the diversity of social experience using a sociological perspective.
• Engage in critical thinking, analysis and problem solving about social issues.
• Employ theoretical and methodological approaches to sociological observations of everyday life.
• Evaluate the implications of multicultural diversity and global interdependence.

Associate in Arts Degree Requirements:
Core Curriculum:

Course	Title	Units
MATH 160	Elementary Statistics	4
or		
PSY 215	Statistics for the Behavioral Sciences	4
~~PSY 138~~	~~Social Psychology~~	~~3~~
SOC 120	Introductory Sociology	3
~~SOC 125~~	~~Marriage, Family and Alternative Lifestyles~~	~~3~~
SOC 130	Contemporary Social Problems	3
		~~16~~10

List A: Select ~~one~~ two of the following:

~~ANTH 120~~	~~Cultural Anthropology~~	~~3~~
SOC 114	Introduction to Race and Ethnicity	3
SOC 125	Marriage, Family and Alternative Lifestyles	3
PSY 138/SOC 138	Social Psychology	3
~~PSY 120~~	~~Introductory Psychology~~	~~3~~
SOC 140	Sex and Gender Across Cultures	3
		~~3~~6

List B: Select one of the following:

Any course not already used in list A		3
ANTH 120	Cultural Anthropology	3
PSY 120	Introductory Psychology	3
		3

Total Units for Major (12 units may be double counted with GE)	19
Total Units for CSU GE Breadth or IGETC-CSU	~~37-39~~39/37
Total Transferable Elective Units	~~3~~14/16
Total Units for Degree	60

Please note: SDSU accepts this degree for students transferring into Sociology B.A.

UNIVERSITY STUDIES

UNIVERSITY STUDIES: BUSINESS AND ECONOMICS

The Associate Degree in University Studies with an Area of Emphasis is intended to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each four-year transfer institution, courses used to complete this degree should be selected with the assistance of a counselor. The completion of the University Studies Degree does not guarantee acceptance into either a baccalaureate major or a four-year institution.

REQUIREMENTS:
I. California State University (CSU) General Education Breadth
1. Complete CSU General Education Breadth (see Degree Requirements and Transfer Information section).
2. Earn a grade of "C" or better in 30 of the required 39 semester units of general education to include all courses in Area A and the Mathematical/Quantitative Reasoning courses in Area B.
3. Credit earned through external examinations, i.e., AP, will be applied towards general education in accordance with Cuyamaca College policies. Please note: This may be different than how the external exam is used on a CSU certification.
4. Complete a minimum of 18 units in an Area of Emphasis (listed below).
5. Complete a minimum of 60 degree applicable CSU transferable semester units.
6. Earn a cumulative GPA of 2.0 in all college course work completed.
7. Meet Cuyamaca College residence requirements for graduation (see Admission Information).

OR

II. Intersegmental General Education Transfer Curriculum (IGETC) for CSU or UC
1. Complete IGETC Certification (see Degree Requirements and Transfer Information section.
2. Earn a grade of "C" or better in all IGETC courses.
3. Credit earned through external examinations, i.e., AP, will be applied in accordance with Cuyamaca College policies. Please note: This may be different than how the external exam is used on an IGETC certification.
4. Complete a minimum of 18 units in an Area of Emphasis (listed below).
5. Complete a minimum of 60 degree applicable UC transferable semester units for UC University Studies.
6. Earn a cumulative GPA of 2.0 in all college course work completed.
7. Meet Cuyamaca College residence requirements for graduation (see Admission Information).

AND

III. Area of Emphasis
- Business and Economics
- ~~A.~~ ~~Business and Economics~~
- ~~B.~~ ~~Communication and Language Arts~~
- ~~C.~~ ~~Humanities and Fine Arts~~
- ~~D.~~ ~~Science and Mathematics~~
- ~~E.~~ ~~Social and Behavioral Sciences~~

While 18 units are required in a specific area to meet the requirements of the degree, it is strongly recommended that as many lower division preparation for the major courses as possible be completed at the community college prior to transfer. Some baccalaureate majors and four-year institutions require a higher GPA than is necessary for the associate degree. Courses that are not UC-transferable will not be used in the UC University Studies Area of Emphasis Degrees. Completion of the University Studies degree does not guarantee admission to a four-year institution.

~~A. Business and Economics~~
Courses for the Associate in Science in University Studies with an Emphasis in Business and Economics focus on the study of business transaction theory and practice, the operations and strategies of business decisions, legal concepts, and the place of business in the American and global economy as a whole. Students will apply mathematical and quantitative reasoning skills to the discipline's methodologies, as well as evaluate and interpret basic economic principles and theories related to performance and specific economic sectors. Students completing this area may be interested in the following baccalaureate majors: accounting, business, economics, finance, information and decision systems, international business, management, and marketing. Students must complete a minimum of ~~six~~ three units in Business, ~~six~~ three units in Economics, and ~~six~~ twelve units from ~~the Electives~~ either category.

Program Learning Outcomes
Upon successful completion of this program, students will be able to:
- Contribute to an effective and ethical organization.
- Prepare and analyze financial statements.
- Use information technology to support effective decision making in the business organization.
- Analyze markets, economic environments and associated trends at the macro and micro levels.
- Express and apply quantitative information in order to make sound decisions and solve problems in the business environment.
- Communicate clearly in the business environment.

(University Studies continued)

Business
BUS 110, 120, 121, 125, 128*
Economics
ECON 110, 120, 121
Electives
CIS 110; MATH 160, 178, 180
*Course not UC transferable

UNIVERSITY STUDIES: COMMUNICATION AND LANGUAGE ARTS

The Associate Degree in University Studies with an Area of Emphasis is intended to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each four-year transfer institution, courses used to complete this degree should be selected with the assistance of a counselor. The completion of the University Studies Degree does not guarantee acceptance into either a baccalaureate major or a four-year institution.

REQUIREMENTS:
I. California State University (CSU) General Education Breadth
   1. Complete CSU General Education Breadth (see Degree Requirements and Transfer Information section).
   2. Earn a grade of "C" or better in 30 of the required 39 semester units of general education to include all courses in Area A and the Mathematical/Quantitative Reasoning courses in Area B.
   3. Credit earned through external examinations, i.e., AP, will be applied towards general education in accordance with Cuyamaca College policies. Please note: This may be different than how the external exam is used on a CSU certification.
   4. Complete a minimum of 18 units in an Area of Emphasis (listed below).
   5. Complete a minimum of 60 degree applicable CSU transferable semester units.
   6. Earn a cumulative GPA of 2.0 in all college course work completed.
   7. Meet Cuyamaca College residence requirements for graduation (see Admission Information).

OR

II. Intersegmental General Education Transfer Curriculum (IGETC) for CSU or UC
   1. Complete IGETC Certification (see Degree Requirements and Transfer Information section.
   2. Earn a grade of "C" or better in all IGETC courses.
   3. Credit earned through external examinations, i.e., AP, will be applied in accordance with Cuyamaca College policies. Please note: This may be different than how the external exam is used on an IGETC certification.
   4. Complete a minimum of 18 units in an Area of Emphasis (listed below).
   5. Complete a minimum of 60 degree applicable UC transferable semester units for UC University Studies.
   6. Earn a cumulative GPA of 2.0 in all college course work completed.
   7. Meet Cuyamaca College residence requirements for graduation (see Admission Information).

AND

III. Area of Emphasis
   - <u>Communication and Language Arts</u>
   A. ~~Business and Economics~~
   B. ~~Communication and Language Arts~~
   C. ~~Humanities and Fine Arts~~
   D. ~~Science and Mathematics~~
   E. ~~Social and Behavioral Sciences~~

While 18 units are required in a specific area to meet the requirements of the degree, it is strongly recommended that as many lower division preparation for the major courses as possible be completed at the community college prior to transfer. Some baccalaureate majors and four-year institutions require a higher GPA than is necessary for the associate degree. Courses that are not UC-transferable will not be used in the UC University Studies Area of Emphasis Degrees. Completion of the University Studies degree does not guarantee admission to a four-year institution.

Courses for the Associate in Science in University Studies with an Emphasis in Communication and Language Arts focus on the study of how language works to express human ideas and feelings. Students will explore and analyze written and verbal communication methods, as well as develop and advance their oral and written communication skills. Students completing this area may be interested in the following baccalaureate majors: communication, English, foreign language, literature, journalism, and linguistics. Students must complete a minimum of ~~six~~ <u>three</u> units in Communication and ~~six~~ <u>three</u> units in Language Arts. The remaining ~~six~~ <u>twelve</u> units may be taken from either category.

Program Learning Outcomes
Upon successful completion of this program, students will be able to:
- Demonstrate the ability to write effectively.
- Demonstrate the ability to locate relevant, reliable information and read it effectively.
- Organize thoughts and ideas in both oral and written format.

• Communicate effectively with diverse audiences.

Communication
BUS 128*
COMM 110, 120, 122, 123, 124, 130, 137, 145

Language Arts
ARAM 120, 121, 220
ARBC 120, 121, 122, 123, 220, 221, 254
ASL 120, 121, 220, 221
BUS 128*
ENGL 122, 124, 126, 201, 202, 214, 221, 222, 231, 232, 236, 238, 270, 271
ETHN 236, 238
NAKY 120, 121, 220
SPAN 120, 121, 220, 221, 250, 251

*Course not UC transferable

UNIVERSITY STUDIES: HUMANITIES AND FINE ARTS

The Associate Degree in University Studies with an Area of Emphasis is intended to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each four-year transfer institution, courses used to complete this degree should be selected with the assistance of a counselor. The completion of the University Studies Degree does not guarantee acceptance into either a baccalaureate major or a four-year institution.

REQUIREMENTS:
I. California State University (CSU) General Education Breadth
1. Complete CSU General Education Breadth (see Degree Requirements and Transfer Information section).
2. Earn a grade of "C" or better in 30 of the required 39 semester units of general education to include all courses in Area A and the Mathematical/Quantitative Reasoning courses in Area B.
3. Credit earned through external examinations, i.e., AP, will be applied towards general education in accordance with Cuyamaca College policies. Please note: This may be different than how the external exam is used on a CSU certification.
4. Complete a minimum of 18 units in an Area of Emphasis (listed below).
5. Complete a minimum of 60 degree applicable CSU transferable semester units.
6. Earn a cumulative GPA of 2.0 in all college course work completed.
7. Meet Cuyamaca College residence requirements for graduation (see Admission Information).

OR

II. Intersegmental General Education Transfer Curriculum (IGETC) for CSU or UC
1. Complete IGETC Certification (see Degree Requirements and Transfer Information section.
2. Earn a grade of "C" or better in all IGETC courses.
3. Credit earned through external examinations, i.e., AP, will be applied in accordance with Cuyamaca College policies. Please note: This may be different than how the external exam is used on an IGETC certification.
4. Complete a minimum of 18 units in an Area of Emphasis (listed below).
5. Complete a minimum of 60 degree applicable UC transferable semester units for UC University Studies.
6. Earn a cumulative GPA of 2.0 in all college course work completed.
7. Meet Cuyamaca College residence requirements for graduation (see Admission Information).

AND

III.Area of Emphasis
• **Humanities and Fine Arts**
A. Business and Economics
B. Communication and Language Arts
C. Humanities and Fine Arts
D. Science and Mathematics
E. Social and Behavioral Sciences

While 18 units are required in a specific area to meet the requirements of the degree, it is strongly recommended that as many lower division preparation for the major courses as possible be completed at the community college prior to transfer. Some baccalaureate majors and four-year institutions require a higher GPA than is necessary for the associate degree. Courses that are not UC-transferable will not be used in the UC University Studies Area of Emphasis Degrees. Completion of the University Studies degree does not guarantee admission to a four-year institution.

Courses for the Associate in Science in University Studies with an Emphasis in Humanities and Fine Arts focus on the study of cultural,

(University Studies continued)

humanistic activities, and artistic expression of human beings. Students will evaluate and interpret the ways in which people through the ages in different cultures have responded to themselves and the world around them through artistic and cultural creation. Students will develop an aesthetic awareness and incorporate these concepts when constructing value judgments. Students completing this area may be interested in the following baccalaureate majors: art, humanities, music, philosophy, religious studies, and theatre arts. Students must complete a minimum of ~~six~~ three units in Humanities and ~~six~~ three units in Fine Arts. The remaining ~~six~~ twelve units may be taken from either category.

Program Learning Outcomes
Upon successful completion of this program, students will be able to:
• Analyze the principle elements of representative examples of art, architecture, literature, theater, philosophy, music, dance, film, or other relevant areas of cultural and/or intellectual creativity.
• Demonstrate an awareness of the historical and philosophical contexts of representative areas, movements, media, works, or styles of cultural and/or intellectual creativity.
• Employ the language, concepts and methods of interpretive criticism as applicable to the respective categories of human creativity.
• When applicable, apply artistic processes and skills as a creative expression, using a variety of media to communicate meaning and intent in original works of art.

Humanities
ARAM 120, 121, 220
ARBC 120, 121, 122, 123, 220, 221, 254
ART 140, 141, 143, 145, 146, 149
ASL 120, 121, 140, 220, 221
ENGL 122, 201, 202, ~~214~~, 217, 221, 222, 231, 232, 236, 238, 270, 271
ETHN 111, 236, 238
HIST 100, 101, 105, 106, 114, 115
HUM 110, 111, 115, 116, 117, 120, 140, 155
NAKY 120, 121, 220
PHIL 110, 115, 117, 140, 141, 160, 170
RELG 120, 130, 160, 170
SPAN 120, 121, 141, 145*, 220, 221, 250, 251

Fine Arts
ART 100, 120, 124, 125, 129, 140, 141, 143, 144, 145, 146, 148~~*~~, 241, 242
MUS 110, 111, 115, 116, 117, 123
THTR 110

* Course not UC transferable

UNIVERSITY STUDIES: SCIENCE AND MATHEMATICS

The Associate Degree in University Studies with an Area of Emphasis is intended to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each four-year transfer institution, courses used to complete this degree should be selected with the assistance of a counselor. The completion of the University Studies Degree does not guarantee acceptance into either a baccalaureate major or a four-year institution.

REQUIREMENTS:
I. **California State University (CSU) General Education Breadth**
    1. Complete CSU General Education Breadth (see Degree Requirements and Transfer Information section).
    2. Earn a grade of "C" or better in 30 of the required 39 semester units of general education to include all courses in Area A and the Mathematical/Quantitative Reasoning courses in Area B.
    3. Credit earned through external examinations, i.e., AP, will be applied towards general education in accordance with Cuyamaca College policies. Please note: This may be different than how the external exam is used on a CSU certification.
    4. Complete a minimum of 18 units in an Area of Emphasis (listed below).
    5. Complete a minimum of 60 degree applicable CSU transferable semester units.
    6. Earn a cumulative GPA of 2.0 in all college course work completed.
    7. Meet Cuyamaca College residence requirements for graduation (see Admission Information).

OR

II. **Intersegmental General Education Transfer Curriculum (IGETC) for CSU or UC**
    1. Complete IGETC Certification (see Degree Requirements and Transfer Information section.
    2. Students pursuing an Associate's Degree in University Studies: Science and Mathematics may follow IGETC for STEM requirements. IGETC for STEM permits a student to delay one GE course in Humanities and one in Social Sciences until after transfer. One 3A and one 3B course must be selected.
    3. Earn a grade of "C" or better in all IGETC courses.

(University Studies continued)

4. Credit earned through external examinations, i.e., AP, will be applied in accordance with Cuyamaca College policies. Please note: This may be different than how the external exam is used on an IGETC certification.
5. Complete a minimum of 18 units in an Area of Emphasis (listed below).
6. Complete a minimum of 60 degree applicable UC transferable semester units for UC University Studies.
7. Earn a cumulative GPA of 2.0 in all college course work completed.
8. Meet Cuyamaca College residence requirements for graduation (see Admission Information).

AND

III. Area of Emphasis
- **Science and Mathematics**
- A. Business and Economics
- B. Communication and Language Arts
- C. Humanities and Fine Arts
- D. Science and Mathematics
- E. Social and Behavioral Sciences

While 18 units are required in a specific area to meet the requirements of the degree, it is strongly recommended that as many lower division preparation for the major courses as possible be completed at the community college prior to transfer. Some baccalaureate majors and four-year institutions require a higher GPA than is necessary for the associate degree. Courses that are not UC-transferable will not be used in the UC University Studies Area of Emphasis Degrees. Completion of the University Studies degree does not guarantee admission to a four-year institution.

Courses for the Associate in Science in University Studies with an Emphasis in Science and Mathematics focus on the study of mathematical and quantitative reasoning skills and the application of facts and principles that form the foundations of living and non-living systems. Students will recognize and utilize the methodologies of science as investigative tools, as well as the limitations of science. Students will use mathematical skills to solve numerical problems encountered in daily life, as well as more advanced skills for applications in the physical and life sciences. Students completing this area may be interested in the following baccalaureate majors: astronomy, biological sciences, chemistry, computer science, engineering, geography, geology, mathematics, oceanography, physical science, and physics. Students must complete a minimum of ~~six~~ three units in Science and ~~six~~ three units in Mathematics (limitation of one statistics course). The remaining ~~six~~ twelve units may be taken from either category.

Program Learning Outcomes
Upon successful completion of this program, students will be able to:
- Use arithmetical, algebraic, geometric and statistical methods to solve problems.
- Interpret mathematical models such as formulas, graphs, tables and schematics, and draw inferences from them.
- Represent mathematical information symbolically, visually, numerically and verbally.
- Use the scientific method of inquiry and techniques to answer questions about physical and biological processes.
- Analyze basic concepts of physical and biological science to evaluate scientific information and solve scientific problems.

Science
ANTH 130
ASTR 110, 112
BIO 115, 122, 130, 131, 133, 134, 135‡, 140, 141, 141L, 152‡, 230, 240, 251
CHEM 102, 115, 116, 120, 141, 142, 231, 232
CS 119, 119L, 181, 182, 281, 282
GEOG 120, 121
GEOL 104, 110, 111
OCEA 112, 113
PHYC 110, 130, 131, 190, 200, <u>201, 202, 203,</u> 210

Mathematics
BIO 215
MATH 160, 170*, 175, 176, 178, 180, 245, 280, 281, 284, 285
PSY 215

*Course not UC transferable

UNIVERSITY STUDIES: SOCIAL AND BEHAVIORAL SCIENCES

The Associate Degree in University Studies with an Area of Emphasis is intended to accommodate the differing requirements of a wide variety of transfer institutions and major options. Because admission and major preparation requirements vary at each four-year transfer institution, courses used to complete this degree should be selected with the assistance of a counselor. The completion of the University Studies Degree does not guarantee acceptance into either a baccalaureate major or a four-year institution.

(University Studies continued)

REQUIREMENTS:

I. California State University (CSU) General Education Breadth
1. Complete CSU General Education Breadth (see Degree Requirements and Transfer Information section).
2. Earn a grade of "C" or better in 30 of the required 39 semester units of general education to include all courses in Area A and the Mathematical/Quantitative Reasoning courses in Area B.
3. Credit earned through external examinations, i.e., AP, will be applied towards general education in accordance with Cuyamaca College policies. Please note: This may be different than how the external exam is used on a CSU certification.
4. Complete a minimum of 18 units in an Area of Emphasis (listed below).
5. Complete a minimum of 60 degree applicable CSU transferable semester units.
6. Earn a cumulative GPA of 2.0 in all college course work completed.
7. Meet Cuyamaca College residence requirements for graduation (see Admission Information).

OR

II. Intersegmental General Education Transfer Curriculum (IGETC) for CSU or UC
1. Complete IGETC Certification (see Degree Requirements and Transfer Information section.
2. Earn a grade of "C" or better in all IGETC courses.
3. Credit earned through external examinations, i.e., AP, will be applied in accordance with Cuyamaca College policies. Please note: This may be different than how the external exam is used on an IGETC certification.
4. Complete a minimum of 18 units in an Area of Emphasis (listed below).
5. Complete a minimum of 60 degree applicable UC transferable semester units for UC University Studies.
6. Earn a cumulative GPA of 2.0 in all college course work completed.
7. Meet Cuyamaca College residence requirements for graduation (see Admission Information).

AND

III. Area of Emphasis
- Social and Behavioral Sciences
- A.   Business and Economics
- B.   Communication and Language Arts
- C.   Humanities and Fine Arts
- D.   Science and Mathematics
- E.   Social and Behavioral Sciences

While 18 units are required in a specific area to meet the requirements of the degree, it is strongly recommended that as many lower division preparation for the major courses as possible be completed at the community college prior to transfer. Some baccalaureate majors and four-year institutions require a higher GPA than is necessary for the associate degree. Courses that are not UC-transferable will not be used in the UC University Studies Area of Emphasis Degrees. Completion of the University Studies degree does not guarantee admission to a four-year institution.

Courses for the Associate in Science in University Studies with an Emphasis in Social and Behavioral Sciences focus on the study and understanding of human behavior. Students will evaluate and interpret human societies; the institutions, organizations, and the groups that form them; the ways in which individuals and groups relate to one another; and various approaches and methodologies of the disciplines. Students completing this area may be interested in the following baccalaureate majors: anthropology, child development, education, history, nutrition, political science, psychology, social work, and sociology. Students must complete a minimum of ~~six~~ three units in Social Science and ~~six~~ three units in Behavioral Science. The remaining ~~six~~ twelve units may be taken from either category.

Program Learning Outcomes
Upon successful completion of this program, students will be able to:
- Describe general principles of the political institutions and government of the United States.
- Demonstrate an understanding and appreciation of social, political, and economic institutions within a historical perspective.
- Evaluate the ways people act and interact in cultures, societies and social subgroups.
- Assess how social issues are influenced by geographical and historical processes.
- Apply knowledge of social and behavioral sciences theories and scientific methods in an assessment of real-world problems.

Social Science
ANTH 120, 140
BIO 134
ECON 110, 120, 121
ETHN 107, 114, 118, 119, 130, 131, 132, 133, 150*, 165*, 166*, 180, 181
GEOG 106, 130
HIST 100, 101, 105, 106, 107*, 108, 109, 118, 119, 122, 123, 124, 130, 131, 132, 133, 148, 180, 181, 275, 276, 277
POSC 120, 121, 124, 130, 140, 165, 166, 170*
SOC 114*, 120, 125, 130, 138*, 150*, 140
SPAN 145*

(University Studies continued)

Behavioral Science
CD 115, 125, 131, 145
COMM 110, 124
HED 120, 201, 203, 204, 251*
PSY 120, 125, 134, 138, 140, 150, 170, 201*, 211≛, 220

*Course not UC-transferable